

**AMENDMENTS TO THE CLAIMS**

1. (Currently Amended) An MPEG data recorder comprising:

an interface means for receiving ~~that receives~~ data packets from a digital transmission line transmitting MPEG data in real time, and extracting ~~a~~ extracts predetermined MPEG data relating to the same content from a received packets to output it ~~and outputs the extracted MPEG data as a data signal;~~

a data rate detector means for determining ~~that determines~~ a data rate of the MPEG data based on a valid data period, during which the data signal is outputted from the interface means; and

a recording mode selector means for selecting ~~that selects~~ a recording mode based on the determined data rate; and

a motor driver that controls the speed of a recording media based on the selected recording mode.

2. (Currently Amended) The MPEG data recorder as claimed in claim 1, wherein, the interface means outputs a transmission control signal when the interface means outputs a data signal; and

the data rate detector means determines a percentage occupied by the valid data period, by detecting the transmission control signal.

3. (Currently Amended) An MPEG data recorder comprising:  
an interface that receives data packets from a digital transmission line  
transmitting MPEG data in real time, and extracts predetermined MPEG data from  
received packets and outputs the extracted MPEG data as a data signal,  
a data rate detector that determines a data rate of the MPEG data based on a  
valid data period, during which the data signal is outputted from the interface; and  
a recording mode selector that selects a recording mode based on the  
determined data rate. The MPEG data recorder as claimed in claim 1, wherein, the  
interface means outputs a data signal as an MPEG packet having a predetermined  
amount of data, and outputs a synchronizing signal in synchronization with the MPEG  
packet; and

the data rate detector means counts the synchronizing signals outputted in a  
predetermined duration for detection, and detects the data rate of MPEG data based on  
the counted value.

4. (Currently Amended) The MPEG data recorder as claimed in claim 1,  
wherein, the data rate detector means adds up valid data periods in a predetermined  
period for detection including two or more valid data periods, and detects the data rate  
of MPEG data based on the added-up value.

5. (Currently Amended) The MPEG data recorder as claimed in claim 2, wherein, the data rate detector means—adds up valid data periods in a predetermined period for detection including two or more valid data periods, and detects the data rate of MPEG data based on the added-up value.

6. (Currently Amended) The MPEG data recorder as claimed in claim 3, wherein, the data rate detector means—adds up valid data periods in a predetermined period for detection including two or more valid data periods, and detects the data rate of MPEG data based on the added-up value.

7. (Currently Amended) The MPEG data recorder as claimed in claim 1, wherein, the interface means—is an IEEE 1394 interface unit, which performs an isochronous communication through an IEEE 1394 link, and the interface means—extracts MPEG data of a predetermined channel from the received packet.

8. (Currently Amended) The MPEG data recorder as claimed in claim 2, the interface means—is an IEEE 1394 interface unit, which performs an isochronous communication through an IEEE 1394 link, and the interface means—extracts MPEG data of a predetermined channel from the received packet.

9. (Currently Amended) The MPEG data recorder as claimed in claim 3, the interface means—is an IEEE 1394 interface unit, which performs an isochronous communication through an IEEE 1394 link, and the interface means extracts MPEG data of a predetermined channel from the received packet.

10. (Currently Amended) The MPEG data recorder as claimed in claim 7, wherein, the data rate detector means—adds up valid data periods in a predetermined period for detection including two or more isochronous cycles, and detects the data rate of MPEG data based on the added-up value.

11. (Currently Amended) The MPEG data recorder as claimed in claim 8, wherein, the data rate detector means—adds up valid data periods in a predetermined period for detection including two or more isochronous cycles, and detects the data rate of MPEG data based on the added-up value.

12. (Currently Amended) The MPEG data recorder as claimed in claim 9, wherein, the data rate detector means—adds up valid data periods in a predetermined period for detection including two or more isochronous cycles, and detects the data rate of MPEG data based on the added-up value.

13. (New) A method of recording MPEG data, comprising:

receiving a plurality of data packets including MPEG data;  
extracting predetermined MPEG data from the received data packets;  
outputting the extracted MPEG data as a data signal;  
outputting a control signal;  
calculating a data rate of the MPEG data based on the data signal and the control signal;  
selecting a recording mode based on the calculated data rate; and  
controlling the speed of a recording media based on the selected recording mode.

14. (New) The method as claimed in claim 13, wherein calculating a data rate comprises:

calculating a percentage of time occupied by a valid data period in a total detection period.